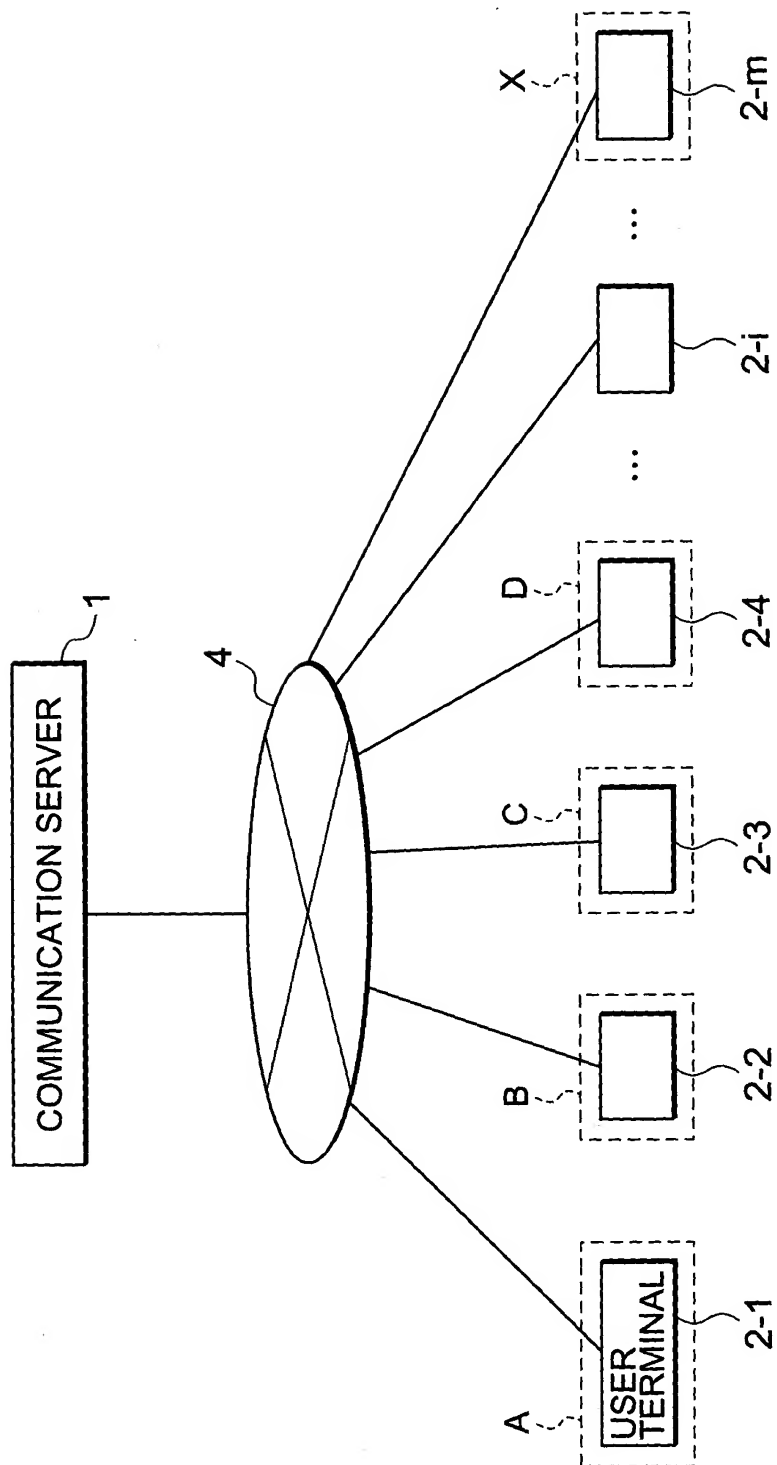


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Fig. 1



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Fig. 2

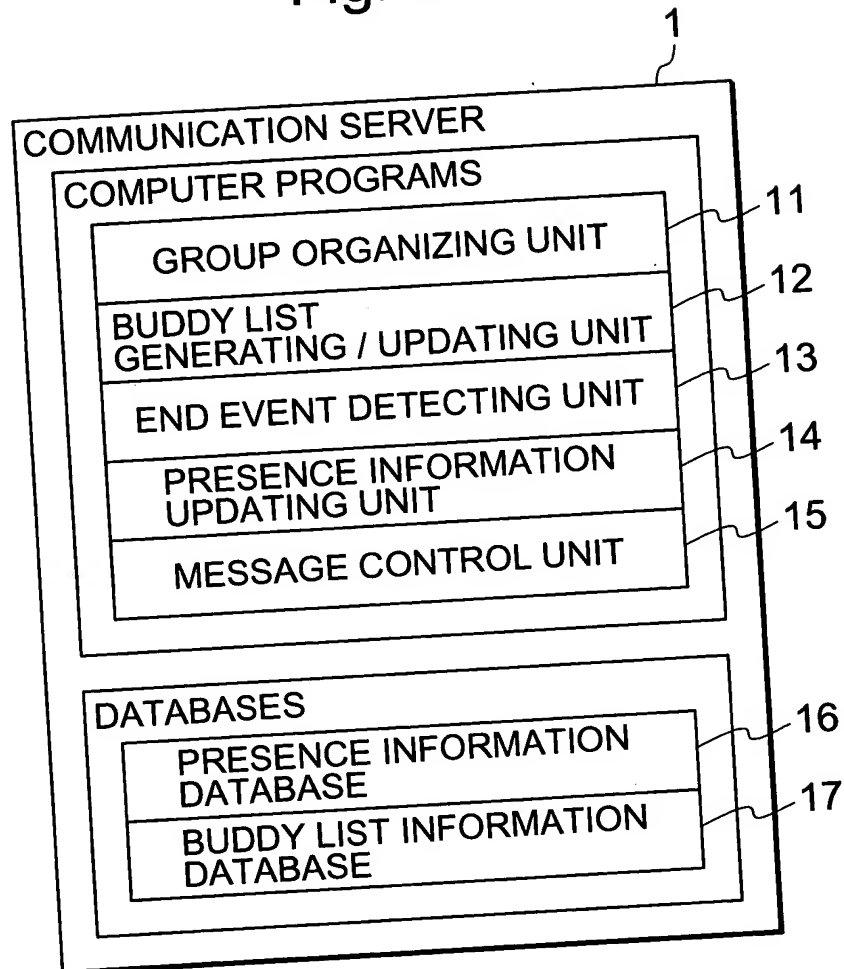


Fig. 3

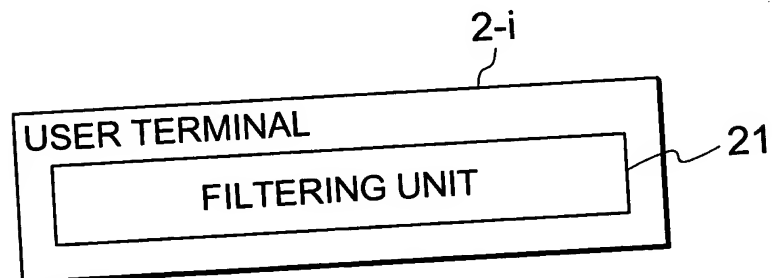




Fig. 5

16a

USER	CHAT GROUP	CHAT DURATION	PRESENCE INFORMATION	POSITION
A	MAIL MAGAZINE x	1 HOUR	Online	MINATO WARD
B	MAIL MAGAZINE x	1 HOUR	Online	SHINAGAWA WARD
C	MAIL MAGAZINE x	1 HOUR	Online	YOKOHAMA CITY
D	MAIL MAGAZINE x	1 HOUR	Online	KUNITACHI CITY
E	MAIL MAGAZINE y	1 HOUR	Offline	BUNKYO WARD
⋮	⋮	⋮	⋮	⋮
X	MAIL MAGAZINE z	1 HOUR	Online	ARAKAWA WARD

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Fig. 6

17a

1ST USER	2ND USER	RELATIONAL ATTRIBUTE	FORMATION TRIGGER	DELETION EVENT
A	B	Ad hoc	MAIL MAGAZINE x	TIME 11:30
A	C	Ad hoc	MAIL MAGAZINE x	TIME 11:30
A	D	Ad hoc	MAIL MAGAZINE x	TIME 11:30
B	C	Ad hoc	MAIL MAGAZINE x	TIME 11:30
B	D	Ad hoc	MAIL MAGAZINE x	TIME 11:30
C	D	Ad hoc	MAIL MAGAZINE x	TIME 11:30

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Fig. 7

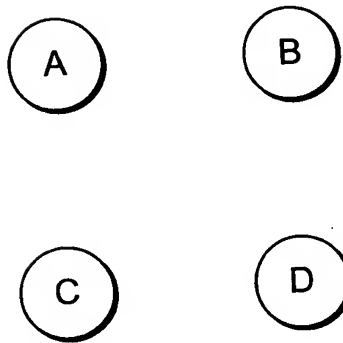
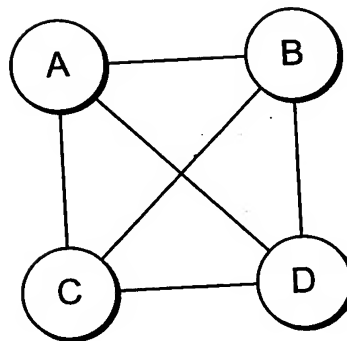


Fig. 8



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Fig. 9

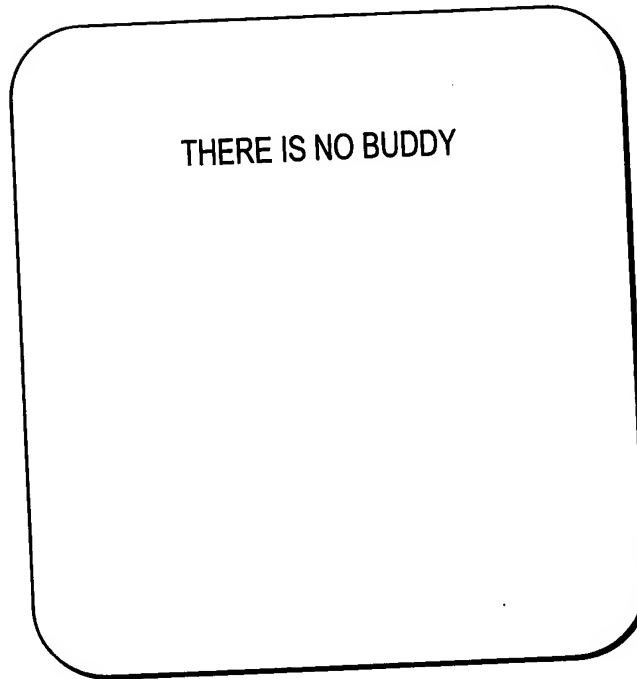
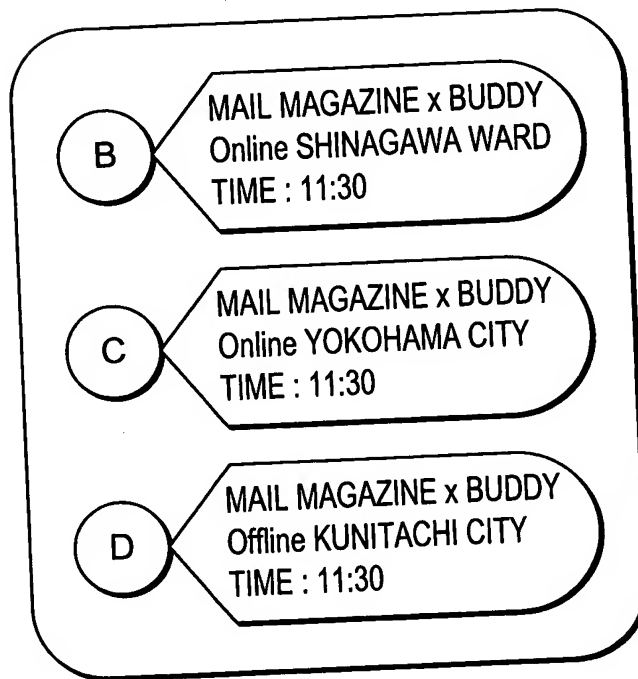
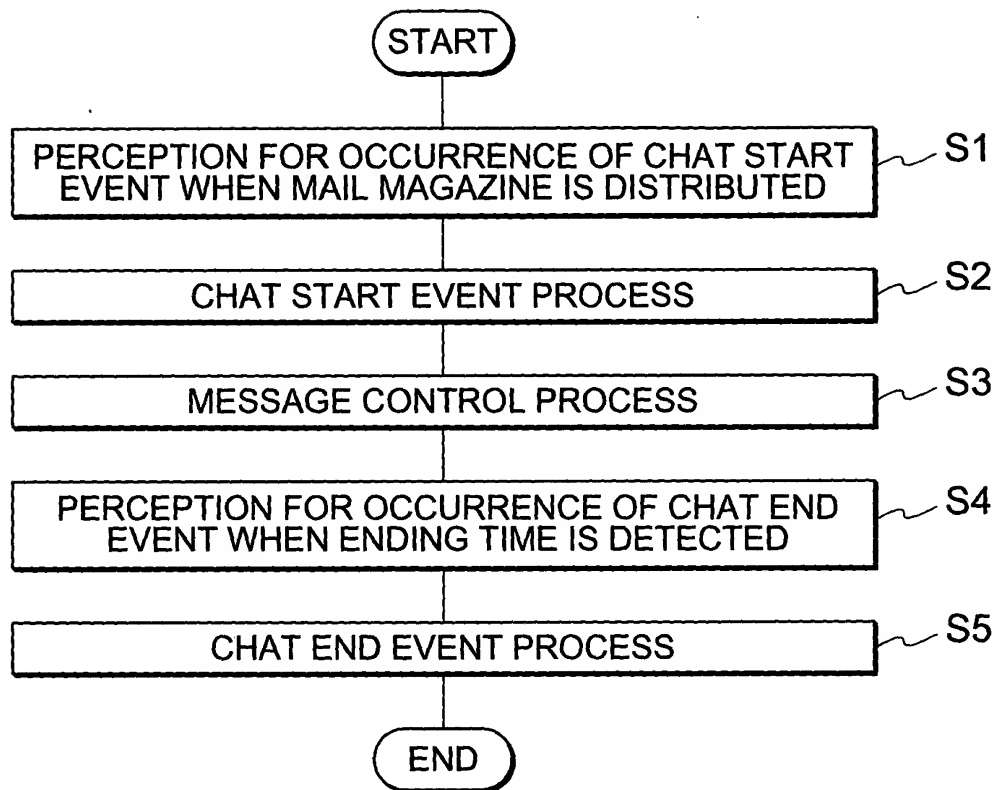


Fig. 10



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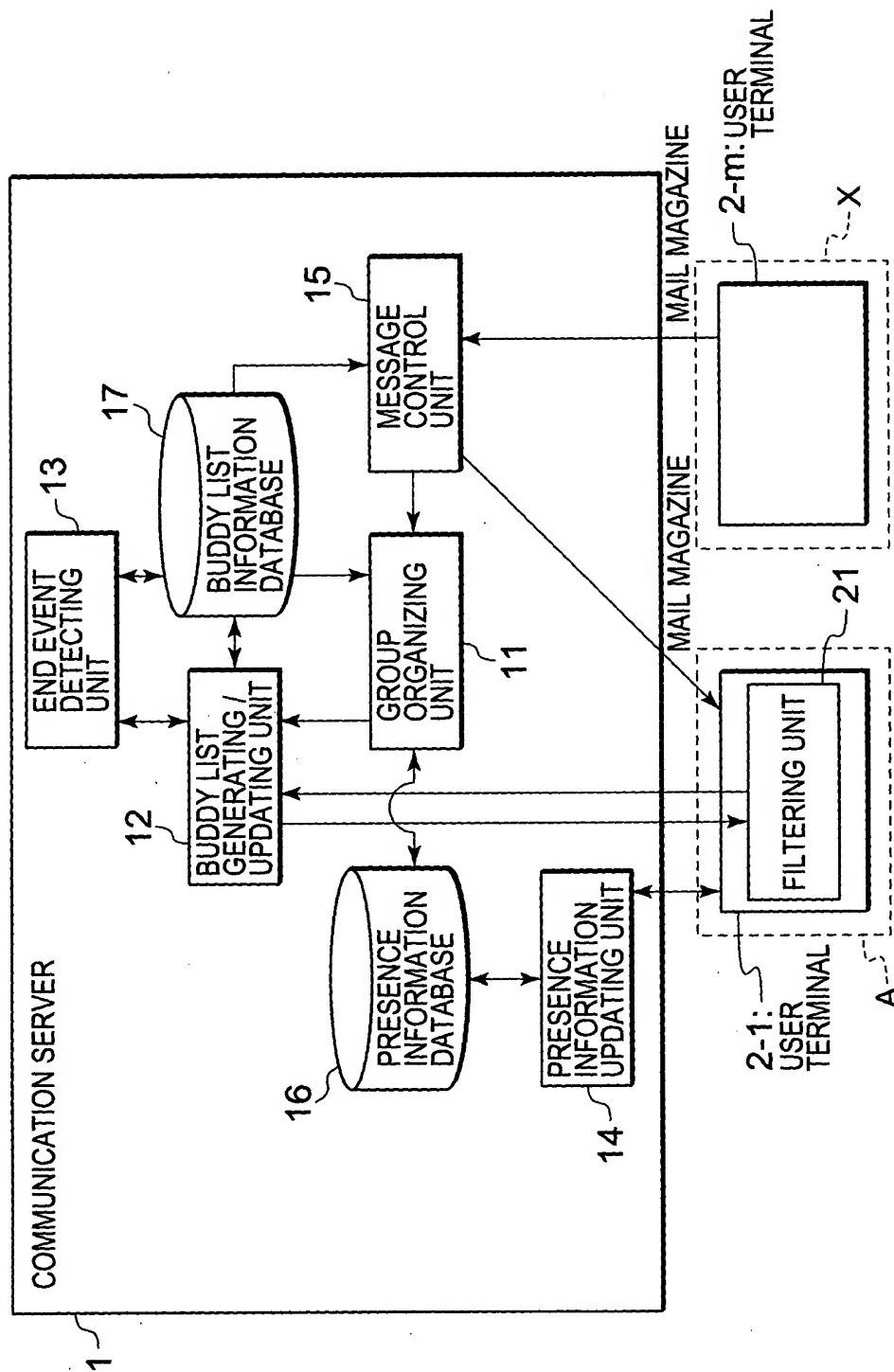
Fig. 11





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Fig. 12



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Fig. 13

16a

USER	CHAT GROUP	CHAT DURATION	PRESENCE INFORMATION	POSITION
X	MAIL MAGAZINE x	(null)	Online	SAITAMA CITY
A	MAIL MAGAZINE x	1 HOUR	Online	MINATO WARD
B	MAIL MAGAZINE x	1 HOUR	Online	SHINAGAWA WARD
C	MAIL MAGAZINE x	1 HOUR	Online	YOKOHAMA CITY
D	MAIL MAGAZINE x	1 HOUR	Offline	KUNITACHI CITY
E	MAIL MAGAZINE y	1 HOUR	Offline	BUNKYO WARD
⋮	⋮	⋮	⋮	⋮
Y	MAIL MAGAZINE z	1 HOUR	Offline	ARAKAWA WARD

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Fig. 14

17a

1ST USER	2ND USER	RELATIONAL ATTRIBUTE	CHAT DURATION	DELETION EVENT
X	A	MAIL MAGAZINE x	1 HOUR	(null)
X	B	MAIL MAGAZINE x	1 HOUR	(null)
X	C	MAIL MAGAZINE x	1 HOUR	(null)
X	D	MAIL MAGAZINE x	1 HOUR	(null)

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Fig. 15

17b

1ST USER	2ND USER	FORMATION TRIGGER	CHAT DURATION	DELETION EVENT
X	A	MAIL MAGAZINE x	1 HOUR	(null)
X	B	MAIL MAGAZINE x	1 HOUR	(null)
X	C	MAIL MAGAZINE x	1 HOUR	(null)
A	B	Ad hoc	(null)	TIME 11:30
A	C	Ad hoc	(null)	TIME 11:30
B	C	Ad hoc	(null)	TIME 11:30

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Fig. 16

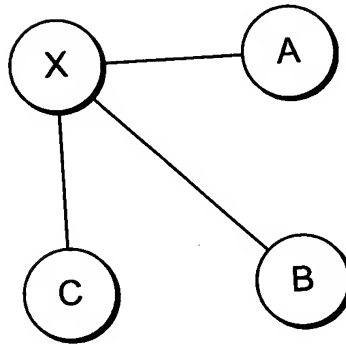
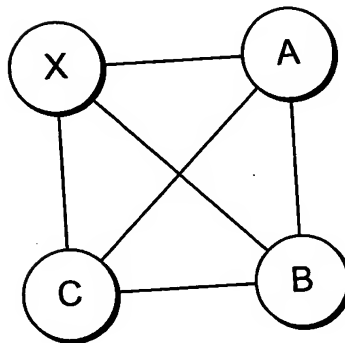
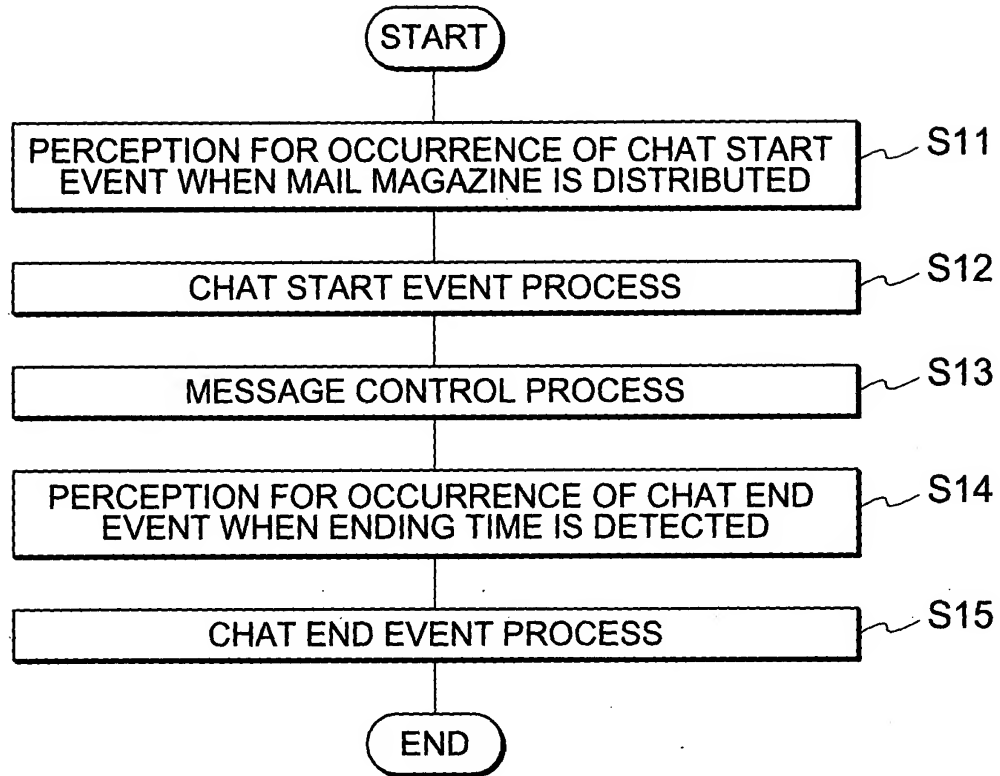


Fig. 17



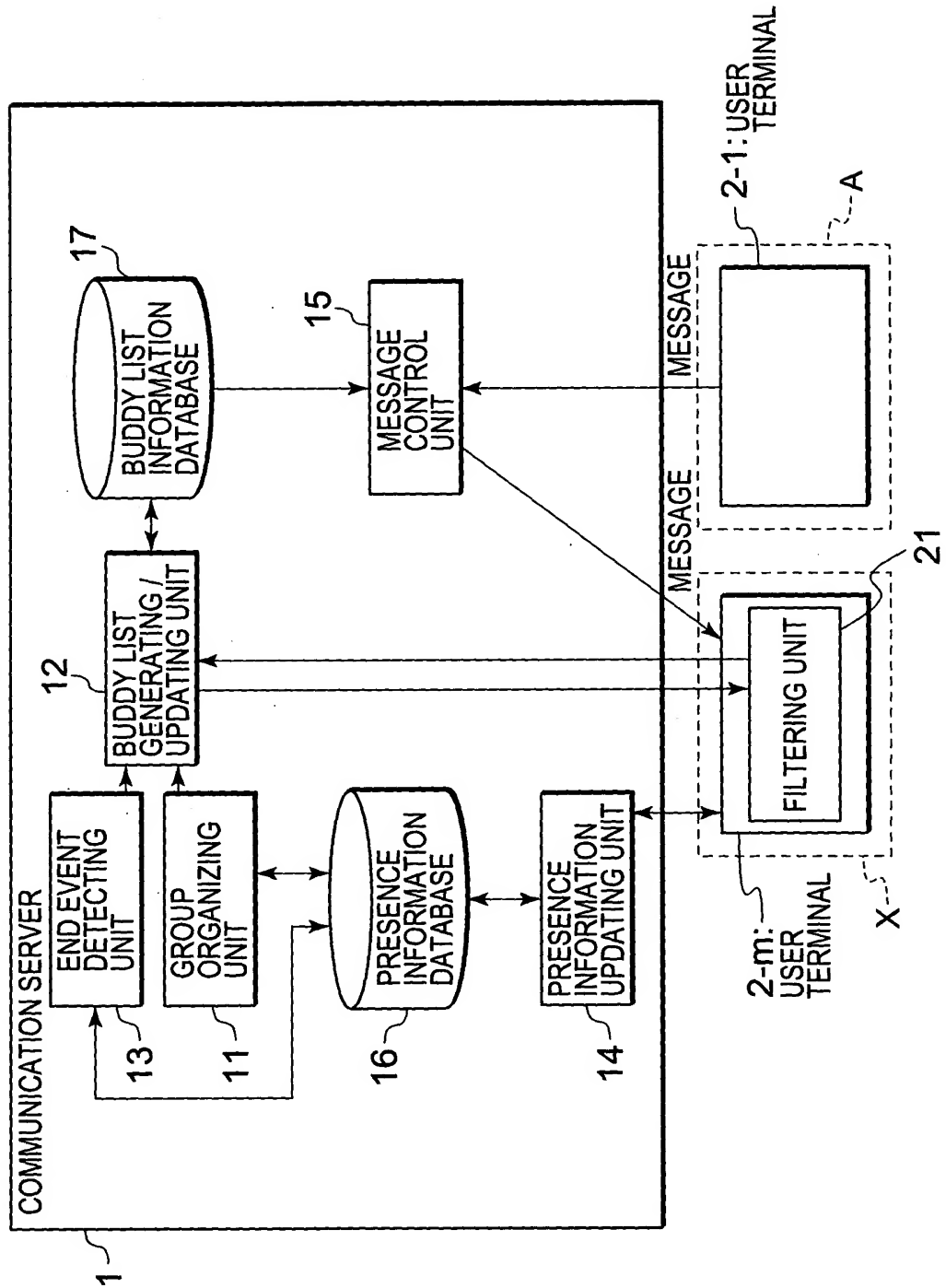
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Fig. 18



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Fig. 19



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Fig. 20

16a

USER	CHAT GROUP	CHAT DURATION	PRESENCE INFORMATION	POSITION
X	MAIL MAGAZINE x	(null)	Offline	SAITAMA CITY
A	MAIL MAGAZINE x	1 HOUR	Online	MINATO WARD
B	MAIL MAGAZINE x	1 HOUR	Online	SHINAGAWA WARD
C	MAIL MAGAZINE x	1 HOUR	Online	YOKOHAMA CITY
D	MAIL MAGAZINE x	1 HOUR	Offline	KUNITACHI CITY
E	MAIL MAGAZINE y	1 HOUR	Offline	BUNKYO WARD
⋮	⋮	⋮	⋮	⋮
Y	MAIL MAGAZINE z	1 HOUR	Offline	ARAKAWA WARD



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Fig. 21

17c

1ST USER	2ND USER	RELATIONAL ATTRIBUTE	DELETION EVENT
X	A	PresenceX	(null)
X	B	PresenceX	(null)
X	C	PresenceX	(null)
X	D	PresenceX	(null)

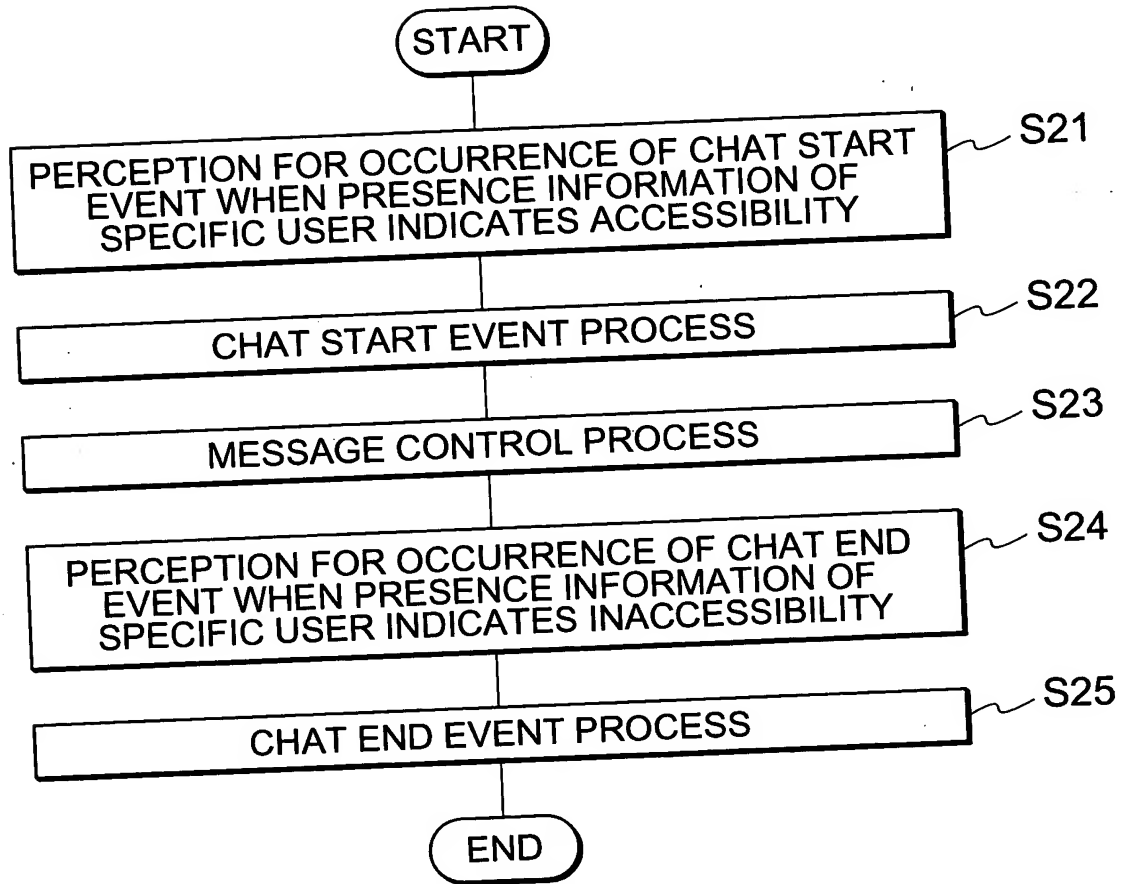
Fig. 22

17d

1ST USER	2ND USER	RELATIONAL ATTRIBUTE	DELETION EVENT
X	A	PresenceX	(null)
X	B	PresenceX	(null)
X	C	PresenceX	(null)
A	B	Ad hoc	PresenceX Off
A	C	Ad hoc	PresenceX Off
B	C	Ad hoc	PresenceX Off

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Fig. 23



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Fig. 24

